







Targets of	of Renewab	le Er	nergy Prom	otio
 Renewable installed ca 	e energy shall ca apacity by 2025.	ontribu	te 15%, in term	s of
year Renewables	2008		2025	
	Installed Capacity (MW)	Rate (%)	Installed Capacity (MW)	Rat (%
1. Hydropower	1,939	5.0	2,500	4.4
2. Wind Power	358	1.0	3,000	5.3
3. Solar PV	4.1	0.0	1,000	1.
4. Geothermal	-	-	150	0.3
5. Biomass	772	2.0	1,400	2.
6. Fuel Cell	-	-	200	0.
7. Ocean Energy	-		200	0.4
Total	3,073	8.0	8,450	15.
8. Solar Thermal	1.78 million	m²	4.09 million	m²

Tupo	Incontivos	Current Status
Electricity Taip Purchase Ene Program Purc	ower Renewable rgy Premium chase Program	Current status I. Purchase price is US\$ 0.063/kWh. Z. The approved purchase capacity has reached 298 MW. J. Total purchase capacity will be 600 MW.
Solar PV Sola Den	ar PV Systems nonstration Program	 Subsidy: US\$ 4,700 /kW; 50% of installation cost max 382 demonstration projects with an installed capacity of 4.099 MW.
Biog Gen spe	gas Power eration: Landfills cified	Electricity generated from biogas of landfills being granted with a premium of US\$ 0.0156/kWh
Biogas Biog Gen	gas Power eration: General	 Grants up to US\$1,000/kW for new generators Installed capacity must exceed 300 kW (could be completed by Nov 30, 2009) Ceased by end of 2008

Туре	Incentives	Current Status
Tax Incentives	Statute for Industrial Upgrade	1. Business entities investing in new and clean energy can enjoy a tax credit up to
	Business Entities Purchasing Energy Saving Equipment or Using New Energy Equipment or Technology Tax Credits	 7% of the equipment cost. 2. Investments in new and clean energy industry can enjoy income tax credits, ranging from 10%-20% of the investr 3. Two-year accelerated depreciation. 4. Low interest loans : up to the 2-year saving floating interest rate, plus 2.45
	Customs Duty	Duty Exemption for imported equipment



i	Pro Recent Activities of Grid Connected Sola	moting Grid Connected RE System and Energy Conservation in Chinese Taipe ar PV System
Chinese TAIPEI	Status - 382 demonstration projects with the installed capacity of 4.099 WW at the end of 2008. • Subsidy upto US\$ 4,700/kW, 50% of installation cost maximum. Targets - 1,000 MW by 2015	<image/> <image/> <text></text>



	Recent Activities of Energy Conservation in Chinese Taipe
à	2008 APEC Photovoltaic Conference
1	October 7~9, 2008 Taipei World Trade Center
ė,	Background
	APEC Economies area owns the biggest capacity of solar cell production in the world.
	APEC Economies has become the most important sectors of supply chain in the solar energy.
	Purpose
AIP	To establish infrastructure for the utilization of PV energy in the APEC region.
ese T	The 2008 APEC PV Conference provides a timely platform and opportunities for all APEC Member Economies to address PV promotion issues, discuss technology development, exchange
hin	Information and experience or promotion scheme in the region. 11 APEC Economies represented

Australia, China, Hong Kong, Japan, Mexico, Malaysia, Singapore, Thailand, USA ,Vietnam and Chinese Taipei

Source: BOE (2008)

Promoting Grid Connected RE System an s of Energy Conservation in Chinese Taip 2008 APEC Photovoltaic Conference Conclusions 1 Sharing of information at both government and industry levels to be continued 2 Keeping the APEC PV agenda moving forward 3 Compilation of information and opinions collected from represented member economies to be done and distributed back to allow APEC **Chinese TAIPEI** economies to set common benchmarks 4 Standardization of training materials and certification of PV engineers and technicians; existing lengthy and inconsistent verification processes must be made more efficient 5 Financing issues not adequately explored; requiring more discussion in the future 6 Build on past APEC projects and workshops 0 7 0 7 Report results to the EGNRET 31 Meeting 2008 and the 36th EWG Meeting Source: BOE (2008)

Grid Connected Biogas Power System

Status -

➢ Operational biogas power generation systems include four landfill sites, three industrial wastewater treatment plants, and some pig farms, with a total installed capacity of 22.4 MW.

Targets -

Chinese TAIPEI

Chinese TAIPEI

It is estimated that there still are six landfill sites with a potential installed capacity of more than 21.2 MW. Biomass energy targets is 1,400 MW by 2015. Sanzhuku Sanitary Landfill Site, Taipei

Capacity: 6.81 MW Treatment: 4,256 m³/hr (1 atm, 25°C)

17.33 Mm³/yr Biogas (2003)

Photo: TEPA (2001) ; Source: ITRI (2008)



s of Energy Conservation in Chinese Taip

Chinese TAIPEI

Renewable Energy Development Bill (Draft)

- Renewable Energy Development Fund—the principle of balancing revenue and expenses based on projected need for subsidies
 - Subsidy for feed-in tariffs (expenses): subsidizing the differences between feed-in tariffs and Taipower's avoided cost
 - Feed-in tariffs: the government establishing a commission consisted of scholars and experts to decide pricing formula, tariffs, and make announcement annually
 - Fund levying (revenue): based on the estimation of subsidizing needs to levy funding from Taipower, IPP and the higher capacity co-generators



- Demonstration subsidy (expenses): those who install PV, fuel cells and hydrogen generators eligible to apply for subsidy
- Incentive subsidy: those who install solar water heaters eligible to apply for subsidy (alternative to thermal utilization and supported by Oil Fund)
- · Public constructions obligated to be installed with PV systems

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		Promoting Grid Connected RE System and Recent Activities of Energy Conservation in Chinese Taipei
		Energy Audit and Incentives for Energy Conservation Technologies
	1.	Promoting the application of Building Energy Management System
	2.	Promoting the use of renewable energy
PEI	3.	Promoting the auditing and benchmarking system to control the building energy consumption
se TA	4.	Promoting and setting up a incentive mechanism for designers implementing energy efficiency design such as tax deduction, low interest rate loan and multiplying the design fee, etc.
Ehine	5.	Promoting ESCO
		Source: BOE (2009)
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	Promoting Grid Connected RE System and Recent Activities of Energy Conservation in Chinese Taiper
	Concluding Remarks
	Accelerate the enactment of Renewable Energy Development Bill to establish a sustainable environment.
···	Adjust the premium tariffs for renewable energy and rationalize energy prices of fossil fuels taking into account their external costs.
AIPE	Remove the obstacles in grid connection and power transmission to promote the power generation from renewables.
Chinese T	Enhance energy productivity, and stress on energy conservation continuously.

